

ASSIGNMENT

WHEREAS, we, Lowell R. Tully, a resident of Elkhart, Indiana; Stephen A. Johnson, a resident of South Bend, Indiana; Dave Konieczny, a resident of Union Mills, Indiana; and Stephen R. Estes, a resident of South Bend, Indiana have invented certain new and useful improvements in ANGULAR ORIENTATION CONTROL SYSTEM FOR FRICTION WELDING MACHINES as fully set forth and described in our application for United States Letters, executed 12-5-97; and

WHEREAS, Inertia Friction Welding Inc. a corporation of the State of Indiana of South Bend, Indiana is desirous of acquiring our entire right, title and interest in and to the said invention, and in and to Letters Patent of the United States and of any and all foreign countries which may issue therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we have assigned, sold and transferred and do hereby assign, sell and transfer unto said Inertia Friction Welding Inc. all of our right, title and interest in and to the aforesaid invention and in and to said provisional application, any other United States Patent Application based thereon, and any Letters Patent of the United States and of any and all foreign countries which may issue therefor, including all Letters Patent issuing upon any continuation, division, renewal or revival of the aforesaid patent and any reissue patent for the aforesaid invention, the same to be held and enjoyed by said Inertia Friction Welding Inc. for its own use and behoof, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

We hereby promise and agree, upon request, to execute all papers and all assignments necessary for the procurement of the United States and foreign Letters Patent and all assignments necessary to convey the legal title thereof to said Inertia Friction Welding Inc. and we hereby further promise and agree to perform all rightful acts that may be necessary and permissible in any interference proceeding or legal action in which said invention, patent applications or Letters Patent may become involved, for the purpose of proving the facts relating to our conception, development and completion of the aforesaid invention.

Dated: 12-5-97

Lowell R. Tully
Lowell R. Tully

STATE OF Cal)
COUNTY OF St. Josey)

SS:

Before me the undersigned, a Notary Public in and for St. Josey County, State
of Cal, personally appeared Lowell R. Tully and acknowledged the execution
of the foregoing instrument this 5 day of Dec 1997.

WITNESS: JAMES A. SCHROEDER, Notary Public
A Notary Public of the State of California
My Commission Expires 12-5-98

My Commission Expires

St. Josey
County of Residence

Dated: 12-5-97

James A. Schroeder
Notary Public

WITNESS: STEPHEN A. JOHNSON, Notary Public
A Notary Public of the State of California
My Commission Expires 12-5-98

Printed Name of Notary

Stephen A. Johnson
Stephen A. Johnson

STATE OF Cal)
COUNTY OF St. Josey)

SS:

Before me the undersigned, a Notary Public in and for St. Josey County, State
of Cal, personally appeared Stephen A. Johnson and acknowledged the
execution of the foregoing instrument this 5 day of Dec 1997.

WITNESS: JAMES A. SCHROEDER, Notary Public
A Notary Public of the State of California
My Commission Expires 12-5-98

My Commission Expires

St. Josey
County of Residence

James A. Schroeder
Notary Public

A Notary Public of the State of California
My Commission Expires 12-5-98

Printed Name of Notary

Dated: 12/15/97

Dave Konieczny
Dave Konieczny

STATE OF Ind)
COUNTY OF St. Joseph)

SS:

Before me the undersigned, a Notary Public in and for St. Joseph County, State of Ind, personally appeared Dave Konieczny and acknowledged the execution of the foregoing instrument this 5 day of Dec 1997.

VERONICA S. SCHWAB, Notary
A Resident of St. Joseph County, IN
My Commission Expires Nov. 17, 2001

My Commission Expires

St. Joseph
County of Residence

Veronica Schab

Notary Public

Printed Name of Notary

Dated: 12/15/97

Steven R. Estes
Steven R. Estes

STATE OF Ind)
COUNTY OF St. Joseph)

SS:

Before me the undersigned, a Notary Public in and for St. Joseph County, State of Ind, personally appeared Steven R. Estes and acknowledged the execution of the foregoing instrument this 5 day of Dec 1997.

VERONICA S. SCHWAB, Notary
A Resident of St. Joseph County, IN
My Commission Expires Nov. 17, 2001

My Commission Expires

St. Joseph
County of Residence

James G. Estes
James G. Estes

Notary Public

VERONICA S. SCHWAB, Notary
A Resident of St. Joseph County, IN
My Commission Expires Nov. 17, 2001

Printed Name of Notary

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)
Lowell R. Tully, Stephen A. Johnson, Dave Konieczny,
and Stephen R. Estes

2. Name and address of receiving party(ies)

Inertia Friction Welding, Inc.
P.O. Box 1108
South Bend, IN 46624

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other: | |

Execution Date: Dec. 5, 1997

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No. (s)

B. Patent No.(s)

Additional numbers attached: Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Baker & Daniels
205 W. Jefferson Blvd., Suite 250
South Bend, IN 46601

6. Total number of applications and patents involved: 1

7. Total fee (37CFR 3.41)..... \$40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James D. Hall

Name of person signing

Signature

December 9, 1997

Date

Total number of pages including cover sheet, attachments, and document: 4

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AUGUST 14, 1998

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BAKER & DANIELS
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205 WEST JEFFERSON BOULEVARD, SUITE 250
SOUTH BEND, IN 46601



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RECORDATION DATE: 12/09/1997

REEL/FRAME: 9222/0508
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
TULLY, LOWELL R.

DOC DATE: 12/05/1997

ASSIGNOR:
JOHNSON, STEPHEN A.

DOC DATE: 12/05/1997

ASSIGNOR:
KONIECZNY, DAVE

DOC DATE: 12/05/1997

ASSIGNOR:
ESTES, STEPHEN R.

DOC DATE: 12/05/1997

ASSIGNEE:
INERTIA FRICTION WELDING, INC.
P.O. BOX 1108
SOUTH BEND, INDIANA 46624

SERIAL NUMBER: 08987493
PATENT NUMBER:

FILING DATE: 12/09/1997
ISSUE DATE:

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PTO/SB/51S (02-01)

Approved for use through 01/31/2004, OMB 0651-0033

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**SUPPLEMENTAL DECLARATION
FOR REISSUE
PATENT APPLICATION
TO CORRECT "ERRORS" STATEMENT
(37 CFR 1.175)**

Attorney Docket Number	
First Named Inventor	
COMPLETE	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

I/We hereby declare that:

Every error in the patent which was corrected in the present reissue application, and which is not covered by the prior oath(s) and/or declaration(s) submitted in this application, arose without any deceptive intention on the part of the applicant.

I/We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date
Name of Second Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date
Name of Third Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date
Name of Fourth Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date

Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

[Page 1 of 1]

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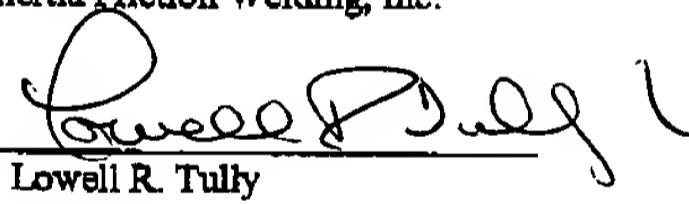
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Inertia Friction Welding, Inc.

By: _____


Lowell R. Tully
President

Dated: 01-11-01

Chicago, Illinois